

#### **Published by:**

## The Kentucky Environmental Quality Commission 14 Reilly Rd - Frankfort, KY 40601

(502) 564-2150 - eqc@ky.gov - www.eqc.ky.gov

### Acknowledgments

This report was prepared by Leslie Cole, Director and Erik Siegel, Research Associate with the Environmental Quality Commission with the assistance of Frances Kirchhoff. The commission would like to thank the many agencies and people who contributed to the production of this report including the Department for Public Health, the Department for Environmental Protection and the Kentucky Cancer Registry. EQC would also like to thank those who reviewed, offered comments and provided information for this report including: Dr. Rice Leach, Dr. Sue Billings, Joyce Robl, David Jones, Colleen Kaelin, Sara Robeson, Patricia McLendon and Dr. George Robertson, Kentucky Department for Public Health; Dr. Tom Tucker and Bin Huang, Kentucky Cancer Registry; Wayne Garfinkel, U.S. Environmental Protection Agency, Region 4, Children's Environmental Health; Dr. Tim Aldrich, University of Louisville, School of Medicine; Alan Kalos, Louis Kent, Ned Kalapasev, Northern Kentucky District Health Department; Barry Gottschalk, American Lung Association of Kentucky; Kim Henken, Extension Associate for Environmental Issues, University of Kentucky; Dr. Larry Taylor, Dr. Albert Westerman, Lona Brewer, Tom VanArsdall, Kentucky Department for Environmental Protection; Tara Grieshop-Goodwin, KIDS COUNT Coordinator, Kentucky Youth Advocates. Any opinions, findings or conclusions in this publication are those of the authors and do not necessarily reflect the views or policies of the agencies, organizations or individuals named above.

#### The Kentucky Environmental Quality Commission (EQC)

is a seven-member citizen board created under state law with a mission to:

- Facilitate public discussion and resolution of environmental issues.
- Monitor and report on environmental trends and conditions.
- Promote partnerships to improve and protect the environment.
- Serve as an advisory board to state officials.

#### **EQC Commissioners**

Lindell Ormsbee, Chair
Betsy Bennett, Vice-Chair, Lexington
Gary Revlett, Shelbyville
Patty Wallace, Louisa
Gordon Garner, Prospect
Laura Knoth, Grand Rivers
Gene Zick, Russellville

**EQC** Staff

Leslie Cole, Director Erik Siegel, Research Associate Frances Kirchhoff, Administrative Assistant

Funding to print this report was provided by the Environmental Protection Agency Region IV, Children's Environmental Health Program in partnership with the University of Kentucky College of Agriculture Cooperative Extension Service. Additional copies may be obtained from EQC.

#### Commonwealth of Kentucky

The Environmental Quality Commission does not discriminate on the basis of race, color, national origin, sex, age, religion, or disability and provides, on request, reasonable accommodations including auxiliary aids and service necessary to afford an individual with a disability an equal opportunity to participate in all services, programs, and activities. To request materials in an alternative format contact the Environmental Quality Commission or call 502-564-2150. Hearing- and speech-impaired persons can contact the Commission by using the Kentucky Relay Service, a toll-free telecommunication devise for the deaf (TDD). For voice to TDD, call 1-800-648-6057. For TDD to voice, call 1-800-648-6056.

Printed on recycled paper

# Children's Environmental Health in Kentucky



**Kentucky Environmental Quality Commission October 2004** 

EQC Environmental Indicators Project . . . reporting on environmental trends and conditions in Kentucky

# Children's Environmental Health





		_		4	_		4
		n	n	Т	Ω	n	Т
•	_	u		. С	┖	44	. ч

		Page
Overv	iew	3
Childh	nood Asthma	
Indicator 1.	Childhood Asthma Hospitalizations	4
Indicator 2.	Childhood Asthma Hospitalizations by County	
Indicator 3.	Counties Not Meeting the 8-Hour Ozone and the PM 2.5 Air Quality Standard	
Indicator 4.	Smoking Rates by Region (Area Development District)	
Learni	ng and Behavioral Disorders	
Indicator 5.	Lead Screening of Children	6
Indicator 6.	Blood Lead Levels in Kentucky Children	
Childh	nood Cancer	
Indicator 7.	Childhood Cancer Cases and Rates	0
	Industrial Releases of Carcinogens to the Environment	
Indicator 8.	industrial Releases of Carcinogens to the Environment	9
Waterl	oorne Diseases	
Indicator 9.	Hepatitis A Rates	10
Indicator 10.	Cryptosporidiosis Cases	10
Indicator 11.	Population At Risk Served by Public Water Systems	11
Indicator 12.	Fecal Coliform Contamination of Private Water Wells	11
Indicator 13.	Boil Water Notices and Advisories	11
Birth E	Defects	
Indicator 14.	Selective Birth Defect Rates	12
Indicator 15.	Industrial Releases of Toluene and Trichloroethylene to the Air	
Indicator 16.	Industrial Releases of Mercury to the Air	14
Indicator 17.		
Indicator 18.	Mercury in Lake Fish Tissue	
101	1.121.001 J III Zuko I Isii 119500	13
List of	CD-Rom Tables and Spreadsheet	16
Endno	tes	17



Disclaimer - This report includes data and information supplied by several state and federal agencies and other sources. EQC acknowledges that in some cases data may be incomplete, not collected consistently from year to year or based on samples, surveys or estimates. Therefore, EQC notes that while measuring trends is an imperfect science, it is still a valuable tool from which to chart progress and problems. This report is intended to present data and information compiled from various public databases and studies and draws no specific conclusions or correlations between individual sources of pollution in Kentucky and impacts to children's health.